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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/519,596	96 12/28/2004		Leif Arne Jorgen Andersson	P17070-US1	9507
27045	7590	06/15/2006		EXAMINER	
ERICSSON		-	CRIBBS, MALCOLM D		
6300 LEGACY DRIVE M/S EVR C11			ART UNIT	PAPER NUMBER	
PLANO, TX 75024			2115		
				DATE MAILED: 06/15/2006	6

Please find below and/or attached an Office communication concerning this application or proceeding.

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Programme And State Office

PTO-90C (Rev. 10/03)

	A N N	Ameliaansta				
	Application No.	Applicant(s)				
	10/519,596	ANDERSSON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Malcolm D. Cribbs	2115				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 29 M.	arch 2006.					
,	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) 22-42 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 22-42 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign  a) All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority application from the International Bureau  * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)	_					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>	4)					
2) Notice of Draftsperson's Patent Drawing Review (P10-946) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/28/04.		Patent Application (PTO-152)				

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## **DETAILED ACTION**

Claims 1-21, are cancelled.

5 Claims 22-42, are presented for examination.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 22-42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Itakura et al [US Patent No. 6,493,832] in view of Backlund et al [Publication No. US 2004/0011868] in further view of Partanen [Publication No. US 2003/0102933].

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As per claim 22, Itakura et al teach the invention comprising:

a first node [Col 6 lines 7-16 "encoders not shown"] connected to a plurality of end nodes by a broadband packet-switched network, wherein each node is connected to at least one end terminal, [Fig 3] each of said end nodes including:

timing generation circuitry adapted to generate an output timing signal that is phase locked to a received reference timing signal originating at said first node [Col 7 lines 15-26]; and

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means for receiving data structure information from said first node and identifying a data structure format from said information for transmitting timesensitive data between said end nodes and said end terminals [Fig 5 detection section 502 Col 6 line 53 – Col 7 line 7].

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Itakura et al do not teach a delay generator for generating a delay in response to delay data received. Specifically, Itakura et al teach constructing a second transmitting format based on data structure format detected, phase locked output and delay data received in the header from first node. However, Itakura et al fail to detail the method of adjusting transmission based on received delay data. A routineer in the data transmission art would have been motivated to look for a teaching for a possible method of adjusting transmission based on received delay information.

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Backlund et al teach another wireless communication system wherein a plurality of end nodes [transceivers] simultaneously transmits data to a terminal node. Backlund et al adjusts transmission by adding a delay unit to each node where the delay unit delays transmission based on the delay pulses received [Page 2 [0025] – [0027]]. In summary, Backlund et al teach the method of delaying transmission based on received delay information.

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It would have been obvious to one of ordinary skill in the art to combine the teachings of Itakura et al and Backlund et al because they both teach a data

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communication system to control the transmission of data though a network. Backlund et al covers the deficiency of Itakura et al by teaching the detail of a method to adjust transmission rates based on received delay information.

Itakura et al and Backlund et al do not teach a method of adjusting the timing of the payload data. Specifically, Itakura et al and Backlund et al teach a method of adjusting the timing of data to be transmitted based on delay. However, Itakura et al and Backlund et al fail to detail that the data being transmitted is payload data, although Itakura et al states the data being transmitted is payload data; Backlund et al states the method of adjusting the data. A routineer in the art would have been motivated to look for a teaching for the possible method of the data being adjusted based on the delay is payload data.

Partanen teaches another method of adjusting and transmitting data through nodes in a communication system. Partanen teaches a method of adjusting the transmission timing of payload data based on delay [[0008]; [0051]]. In summary, Partanen teaches a method of adjusting the timing of data based on delay; wherein the data is payload data.

It would have been obvious to one of ordinary skill in the art to combine the teachings of Itakura et al and Backlund et al with Partanen, which are analogous art, because they teach a method of transmitting data via nodes through a network while

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compensating for delay. Partanen covers the deficiency of Itakura et al and Backlund et al by indicating that the data being transmitted and adjusted is payload data.

As per claim 23, at least one intermediate node, arranged between the first node and at least one of said end nodes, including timing generation circuitry [Itakura et al Fig. 5 receiver [0031]].

As per claim 24, means for extracting a data transmission start time marker [Itakura et al Col 4 line 64 – Col 5 line 10].

As per claim 25, signal generator is arranged to adjust the timing of transmission start time marking [Itakura et al Col 4 line 64 – Col 5 line 10].

As per claim 26, each end node is operative to determine a node transmission delay, and the first node is operative to determine the maximum node transmission delay from each end node and communicate this maximum node transmission delay to all end nodes as delay information [Backlund et al Page 2 [0025] – [0027]].

As per claim 27, node transmission delay is the round trip delay between end node and first node [Partanen [0051]].

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As per claim 28, means for extracting a timing reference from a received signal, means for phase locking a generated timing signal to said timing reference, and means for imposing said phase locked timing signal on an output signal to generate said output timing signal [Itakura et al Col 4 line 64 – Col 5 line 10].

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As per claim 29, it is obvious to one of ordinary skill in the art wherein the network is of various types including an Ethernet [Col 1 lines 5-14].

As per claims 30-35, it is directed to the method of steps to implement the system as set forth in claims 22-29. Therefore, it is rejected for the same basis as set forth hereinabove.

As per claims 36-42, it is directed to the node to implement the system as set forth in claims 22-29. Therefore, it is rejected for the same basis as set forth hereinabove.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Malcolm D. Cribbs whose telephone number is 571-272-5689. The examiner can normally be reached on M-F 8AM-430PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Lee can be reached on 571-272-3667. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Malcolm D Cribbs Examiner Art Unit 2115

June 6, 2006

CHUN CAO PRIMARY EXAMINER

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